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इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation

## भाग I—खण्ड 3

### PART I—SECTION 3

रक्षा मंत्रालय द्वारा जारी किये गये विधिक नियमों, विनियमों, आदेशों और संकल्पों से संबंधित अधिसूचनाएं

Notifications relating to Non-Statutory Rules, Regulations, Orders and Resolutions issued by the Ministry of Defence

#### MINISTRY OF DEFENCE NOTIFICATION

New Delhi, the 29th October 1966

No. 2731, dated 11th October, 1966.—An examination for admission to the Army, Navy and Air Force Wings of the National Defence Academy shall be held by the Union Public Service Commission at such places and on such dates as may be specified in the Notice issued by the Commission in this behalf. The number of the course and the month of its commencement at the Academy and also the approximate number of vacancies to be offered for entry on the results of the examination will be specified in the Notice issued by the Commission.

2. Admission to the National Defence Academy will be made on the results of a written examination to be conducted by the Union Public Service Commission, and an interview by a Services Selection Board.

3. Candidates should indicate in the application form their order of preference if they wish to compete for more than one Service. Due consideration will be given to the preference expressed by a candidate at the time of his application, but the Government of India reserve the right to assign him to any Service or branch of service taking into consideration the vacancies available in each Service or branch and the aptitude of the candidate.

NOTE 1.—Sailors (including boys and artificer apprentices) of the Indian Navy must give Indian Navy as their first preference.

NOTE 2.—Candidates who have applied for the Indian Navy Examination for admission as Special Entry Cadets into the Indian Navy, must exercise their final option before admission to the National Defence Academy course. After admission, they will not be considered for Special Entry in the Navy. They will also not be permitted to appear for any interview or examination after admission to the Academy.

4. A candidate must be an unmarried male and must either be :—

- a citizen of India, or
- a subject of Sikkim, or
- a subject of Bhutan, or
- a subject of Nepal, or
- a person of Indian origin who has migrated from Pakistan, Burma, Ceylon and East African Countries of Kenya, Uganda and the United Republic of Tanzania (formerly Tanganyika and Zanzibar) with the intention of permanently settling in India.

Provided that a candidate belonging to categories (d) and (e) above shall be a person in whose favour a certificate of eligibility has been given by the Government of India and if he belongs to category (e) the certificate of eligibility will be issued for a period of one year, after which such a candidate will be retained in service subject to his having acquired Indian citizenship

Certificate of eligibility will not, however, be necessary in the case of candidates belonging to any one of the following categories :—

- Persons who migrated to India from Pakistan before the nineteenth day of July, 1948, and have ordinarily been residing in India since then;
- Persons who migrated to India from Pakistan on or after the nineteenth day of July 1948, and have got themselves registered as citizens of India under Article 6 of the Constitution;
- Gorkha subjects of Nepal.

A candidate in whose case a certificate of eligibility is necessary may be admitted to the examination and he may also provisionally be admitted to the Academy subject to the necessary certificate being given to him by the Government.

NOTE.—A widower or a person who has divorced his wife cannot be treated as an unmarried male for the purpose of the above Rule.

5. CANDIDATES SHOULD BE MEDICALLY FIT IN ALL RESPECTS FOR SERVICE IN ANY PART OF THE WORLD. THE STANDARDS OF MEDICAL FITNESS ARE SHOWN IN APPENDIX II TO THE NOTIFICATION.

A NUMBER OF QUALIFIED CANDIDATES ARE REJECTED. SUBSEQUENTLY ON MEDICAL GROUNDS. CANDIDATES ARE, THEREFORE, ADVISED IN THEIR OWN INTEREST TO GET THEMSELVES MEDICALLY EXAMINED BEFORE SUBMITTING THEIR APPLICATIONS TO AVOID DISAPPOINTMENT AT THE FINAL STAGE.

A sufficient number of suitable candidates recommended by the Services Selection Board will be medically examined by a Board of Service Doctors. A candidate who is not declared fit by the Medical Board will not be admitted to the Academy, the very fact that the medical examination has been carried out by a Board of Service Doctors will not mean or imply that the candidate has been finally selected. The proceedings of the Medical Board are confidential and cannot be divulged to any one. The results of candidates declared unfit/temporarily unfit are intimated to them along with the procedure for submission of fitness certificate and appeal. No requests for the results of Medical Board will be entertained by the President of the Medical Board.

Candidates for the Army are advised in their own interest that if their vision does not come up to the standard, they must bring with them their correcting glasses if and when called up for Services Selection Board Interview/Medical Examination.

6. Candidates must undertake not to marry until they complete their full training. A candidate who marries subsequent to the date of his application, though successful at this or any subsequent examination, will not be selected

for training. A candidate who marries while in training shall be discharged and will be liable to refund all expenditure incurred on him by the Government.

7. A candidate for admission to the examination must have attained the age of 15 years and must not have attained the age of 17½ years on the first day of the month in which the course at the National Defence Academy is due to commence.

THE PRESCRIBED AGE LIMITS CAN IN NO CASE BE RELAXED.

8. A candidate must have passed one of the following examinations or must possess one of the following certificates:—

- (a) the Matriculation Examination of any University incorporated by an Act of the Central or State Legislature in India or an examination recognised by such a University as equivalent to its Matriculation Examination;
- (b) an examination held by a State Education Board at the end of the Secondary School Course for the award of a School Leaving Secondary School, High School or any other Certificate which is accepted by the Government of that State as equivalent to Matriculation Certificate for entry into services;
- (c) the Cambridge School Certificate Examination (Senior Cambridge);
- (d) European High School Examination held by the State Governments;
- (e) Tenth Class Certificate from the Technical Higher Secondary School of the Delhi Polytechnic;
- (f) Tenth Class Certificate from a recognised Higher Secondary School or from a recognised School preparing students for the Indian School Certificate Examination;
- (g) Junior examination of the Jamia Millia Islamia, Delhi in the case of *bona fide* resident students of the Jamia only;
- (h) Bengal (Science) School Certificate;
- (i) Final School Standard Examination of the National Council of Education, Jadavpur, West Bengal (since inception);
- (j) Vidyadhikari Diploma of Gurukul Vishwavidyalaya, Kangri, Hardwar;
- (k) Adhikari Diploma of Gurukul Vishwavidyalaya, Vrindaban;
- (l) the following French Examinations of Pondicherry: (i) 'Brevet Elementaire'; (ii) 'Brevet d'Enseignement Primaire de Langue Indienne'; (iii) 'Brevet D' etudes du Premier Cycle'; (iv) 'Brevet D' Enseignement Primaire Supérieur de Langue Indienne'; and (v) 'Brevet de Langue Indienne (Vernacular)';
- (m) the Indian Army Special Certificate of Education;
- (n) the Higher Education Test of the Indian Navy;
- (o) Advanced Class (Indian Navy) Examination;
- (p) Ceylon Senior School Certificate Examination;
- (q) Certificate granted by the East Bengal Secondary Education Board, Dacca;
- (r) School Leaving Certificate Examination of the Government of Nepal;
- (s) the Anglo-Vernacular School Leaving Certificate (Burma);
- (t) the Burma High School Final Examination Certificate;
- (u) Post-War School Leaving Certificate of Burma;
- (v) Central Certificate of Education Examination of London University at 'Ordinary' level provided it is passed in five subjects including English;
- (w) General Certificate of Education Examination of Ceylon at 'Ordinary' level provided it is passed in six subjects including English and Mathematics and either Sinhalese or Tamil;
- (x) the 'Vinit' examination of the Gujarat Vidyapith, Ahmedabad;
- (y) Pass in the 5th Year of 'Lyceum' a Portuguese qualification in Goa, Daman and Diu.

NOTE 1.—In exceptional cases the Union Public Service Commission may treat a candidate, who has not any of the foregoing qualifications, as a qualified candidate, provided that he has passed examinations conducted by other institutions, the standard of which in the opinion of the Commission justifies his admission to the examination.

NOTE 2.—A candidate who has appeared at an examination the passing of which would render him eligible to appear at this examination but has not been informed of the result may apply for admission to the examination. A candidate who intends to appear at such a qualifying examina-

tion may also apply. Such a candidate will be admitted to this examination, if otherwise eligible, but the admission would be deemed to be provisional and subject to cancellation if he does not produce proof of having passed the examination, as soon as possible, and in any case not later than a date which may be fixed by the Union Public Service Commission in this regard.

9. Candidates who were admitted to an earlier course at the National Defence Academy but were removed therefrom for the lack of officer-like qualities or on disciplinary grounds will not be admitted to the Academy.

Candidates who were previous<sup>y</sup> withdrawn from the National Defence Academy on medical grounds or left the above Academy voluntarily, are, however, eligible for admission to the Academy provided they satisfy the medical and other prescribed conditions.

10. The decision of the Commission as to the eligibility or otherwise of a candidate shall be final.

11. A candidate found guilty of impersonation or of submitting fabricated documents or documents which have been tampered with or of making statements which are incorrect or false or suppressing material information or of using or attempting to use unfair means in the examination hall or otherwise resorting to any other irregular or improper means for obtaining admission to the examination or of misbehaviour in the examination hall, may, in addition, to rendering himself liable to a criminal prosecution, be debarred either permanently or for a specified period:—

- (a) by the Commission from admission to any examination or appearance at any interview held by the Commission for selection of candidates; and
- (b) by the Central Government from employment under them.

12. No candidate shall be admitted to the examination unless he holds a certificate of admission from the Commission.

13. Any attempt on the part of a candidate to obtain support for his candidature by any means may disqualify him for admission.

14. The examination will be conducted by the Commission in the manner prescribed in Appendix I to the Notification.

15. Candidates must pay the fee prescribed in Annexure I to the Commission's Notice.

16. The Union Public Service Commission shall prepare a list of candidates who obtain the minimum qualifying marks in the written examination, as fixed by the Commission in their discretion. Such candidates shall appear before a Services Selection Board for Intelligence and Personality Tests, where candidates for the Army/Navy will be assessed in officer potentiality, and those for the Air Force in Pilot Aptitude and officer potentiality. The maximum marks obtainable at these tests are 900.

To be acceptable, candidates for the Army/Navy should secure the minimum qualifying marks, separately in (i) written examination, and (ii) officer potentiality test, as fixed by the Commission in their discretion, and candidates for the Air Force should secure the minimum qualifying marks separately in (i) written examination, (ii) officer potentiality test, and (iii) Pilot Aptitude Test, as fixed by the Commission in their discretion. Subject to these conditions the qualified candidates will then be placed in the final order of merit on the basis of total marks secured by them in the written examination, and the Services Selection Board tests in two separate lists—one for the Army and the Navy and the other for the Air Force. The names of candidates who qualify for all the Services will appear in both the Merit Lists. The final selection for admission to the Army and Naval Wings of the National Defence Academy will be made in order of merit up to the number of vacancies available from the order of merit list for the Army and the Navy and for the Air Force Wing from the order of merit list for the Air Force subject to medical fitness and suitability in all other respects. The candidates who are common to both the merit lists will be considered for selection from both the lists with reference to their order of preferences and in the event of their final selection from one list, their names will be cancelled from the other list.

NOTE.—EVERY CANDIDATE FOR THE AIR FORCE IS GIVEN PILOT APITUDE TEST ONLY ONCE. THE GRADE SECURED BY HIM AT THE FIRST TEST WILL THEREFORE HOLD GOOD FOR EVERY SUBSEQUENT INTERVIEW HE HAS WITH THE AIR FORCE SELECTION BOARD. A CANDIDATE WHO FAILS IN THE FIRST PILOT APITUDE TEST CANNOT APPLY FOR ADMISSION TO THE NATIONAL DEFENCE ACADEMY EXAMINATION FOR THE AIR FORCE WING OR THE AIR FORCE FLYING COLLEGE EXAMINATION.

Candidates who have been given the Pilot Aptitude Test for any previous N.D.A. course, should submit their applications for this examination only if they have been notified as having qualified in Pilot Aptitude Test.

Candidates will appear before the Services Selection Board and undergo the test thereat at their own risk and will not be entitled to claim any compensation or other relief from

Government in respect of any injury which they may sustain in the course of or as a result of any of the test given to them at the Services Selection Board, whether due to the negligence of any person or otherwise. Parents or guardians of the candidates will be required to sign a certificate to this effect on the form appended to the application. Candidates when called for interview by a Services Selection Board, or for medical examination or for subsequent training will be eligible for travelling allowance in accordance with the rules then in force. Candidates who have previously been before a Services Selection Board for the same type of Commission are not entitled to travelling allowance when called up for Services Selection Board interview, or Medical Examination on subsequent occasions.

**NOTE.**—The form and manner of communication of the result of the examination to individual candidates shall be decided by the Commission in their discretion and the Commission will not enter into correspondence with them regarding the result.

17. Success in the examination confers no right of admission to the Academy. A candidate must satisfy the appointing authority that he is suitable in all respects for admission to the Academy.

18. Candidates finally selected will undergo a three-year course at the National Defence Academy. After this three years' training the successful candidates will undergo further specialists training for the Service for which they may be selected. While at the National Defence Academy, cadets will be subjected to the discipline of the Academy. Brief particulars of the training and of the Services are given in Appendix III.

19. Immediately after the selected candidates join the Academy, a preliminary examination will be held in the following subjects:—

- (a) English;
- (b) Mathematics;
- (c) Science;
- (d) Hindi.

The standard of the examination in the subjects at (a), (b) and (c) will be that of the Matriculation Examination of an Indian University. The paper in the subject at (d) is intended to test the standard attained by the candidate in Hindi at the time of joining the Academy.

Candidates are, therefore, advised not to neglect their studies after the competitive examination.

20. Before a candidate joins the Academy, the parent or guardian will be required to sign:

- (a) A certificate to the effect that he fully understands that he or his son/ward shall not be entitled to claim any compensation or other relief from the Government in respect of injuries/bodily infirmity/death which his son/ward may sustain in the course of or as a result of the training/operation/anaesthesia given to him at the National Defence Academy.
- (b) A bond to the effect that, if for any reasons considered within the control of the candidate, he wishes to withdraw before the completion of the course or fails to accept a commission, if offered, he will be liable to refund the whole or such portion of the cost of tuition, food, clothing and pay and allowances received, as may be decided upon by Government.

21. The cost of training including accommodation, books, uniforms, boarding and medical treatment will be borne by the Government. Parents or guardians of cadets will, however, be required to meet their pocket and other private expenses. Normally these expenses are not likely to exceed Rs. 30.00 p.m. If in any case a cadet's parent or guardian is unable to meet wholly or partly even this expenditure, financial assistance up to Rs. 30.00 p.m. may be granted by the Government. No cadet whose parent or guardian has an income of Rs. 350.00 p.m. or above would be eligible for the grant of the financial assistance. The immovable property and other assets and income from all sources are also taken into account for determining the eligibility for financial assistance.

The parent/guardian of a candidate desirous of having any financial assistance should immediately after his son/ward having been finally selected for training at the National Defence Academy, submit an application through the District Magistrate of his District who will forward the application with his recommendation to the Director of Military Training (MT-6), Army Headquarters, New Delhi.

22. Candidates finally selected for training at the Academy will be required to deposit the following amount, with the Commandant, National Defence Academy, on arrival there:

(a) Pocket allowance for five months at Rs. 30.00 per month	Rs.	150.00
(b) For items of clothing and equipment	Rs.	650.00
Total	Rs.	800.00

Out of the amount mentioned above the following amount is refundable to the cadets in the event of financial aid being sanctioned to them:

(a) Pocket allowance for five months at Rs. 30.00 per month	Rs.	150.00
(b) For items of clothing and equipment	Rs.	475.00

23. The following scholarships are tenable at the National Defence Academy.

(1) **PARSHURAM BHAI PATWARDHAN** Scholarship.—This scholarship is granted to boys who belong to MAHARASHTRA and KARNATAK and whose parents' income is between Rs. 350.00 and Rs. 500.00 per month from all sources. The value of the scholarship is equal to the Government financial assistance. It is admissible for the duration of a Cadet's stay in the National Defence Academy and other Pre commission training establishments subject to the Cadet's good conduct and satisfactory progress in the training and his parents' income remaining below the prescribed limit. Cadets, who are granted this scholarship, will not be entitled to any other financial assistance from the Government.

(2) **COLONEL KENDAL FRANK MEMORIAL** Scholarship.—This scholarship is of the value of Rs. 360.00 per annum and is awarded to a Maratha cadet who should be the son of ex-serviceman. The scholarship is in addition to any financial assistance from the Government.

(3) **KUER SINGH MEMORIAL** Scholarship.—Two scholarships are awarded to two cadets who obtain the highest position amongst candidates from BIHAR. The value of each scholarship is Rs. 37.00 per mensem tenable for a maximum period of 4 years during the training at the National Defence Academy, KHARAKVASLA and thereafter at the Indian Military Academy, Dehradun, and the Air Force Flying College and Naval Training Establishments where the cadets may be sent for training on completion of their training at the National Defence Academy. The scholarships will, however, be continued subject to making good progress at the above institutions.

(4) **ASSAM GOVERNMENT** Scholarships.—Four Scholarships will be awarded annually to the cadets from ASSAM. The value of each scholarship is Rs. 30.00 per mensem and is tenable for the duration of a cadet's stay at the National Defence Academy. The first two scholarships will be awarded to the two best cadets from ASSAM without any reference to the income of their parents. The other two scholarships will be awarded to any other two cadets from ASSAM whose parents' income is less than Rs. 300.00 per mensem. The cadets who are granted this scholarship will not be entitled.

(5) **UTTAR PRADESH GOVERNMENT** Scholarship.—This scholarship of the value of Rs. 30.00 per month and an outfit stipend of Rs. 400.00 is awarded to a cadet who belongs to Uttar Pradesh on merit-cum-means basis and is tenable for a period of three years subject to satisfactory performance by the cadet at the National Defence Academy. Cadets who are granted this Scholarship are not entitled to any other financial assistance from Government.

(6) **KERALA GOVERNMENT** Scholarship.—One Scholarship of the annual value of Rs. 360.00 is awarded for each course at the National Defence Academy during the entire period of training by the KERALA State Government to the students who secure admission to the Academy after passing out from the Rashtriya Indian Military College, Dehradun and who have been domiciled in the State of KERALA. This scholarship is awarded to the cadets who are not eligible for Government of India assistance and whose parents or guardians have a monthly income below Rs. 500.00 per mensem.

(7) **BIHARI LAL MANDAKINI** Prize.—This is a cash prize of Rs. 500.00 available for the best Bengali boy in each Course of the Academy. Application forms are available with the Commandant, National Defence Academy.

(8) **ORISSA GOVERNMENT** Scholarship.—Three scholarships, one for the Army, one for the Navy and the other for the Air Force of the value of Rs. 80.00 each per month will be awarded by the Government of Orissa to the cadets who are permanent residents of the State of Orissa. Two of these scholarships will be awarded on the basis of merit-cum-means of the cadets whose parent's or guardian's income does not exceed Rs. 5,000 per annum and the other one will be given to the best cadet irrespective of his parent's or guardian's income.

(9) **WEST BENGAL GOVERNMENT** Scholarships.—Following categories of scholarships are awarded by the West Bengal Government to those cadets who are permanent residents of West Bengal:—

- (a) **Category 1.**—Six scholarships at the rate of Rs. 360 per annum during the 1st and 2nd year and at the rate of Rs. 480 per annum during the 3rd year at the Academy and 4th year at the specialised training institution; an initial outfit stipend of Rs. 400 in addition.
- (b) **Category 2.**—Six scholarships, each of a lump-sum grant of Rs. 100 per annum.

Terms and conditions governing these scholarships are obtainable from the Commandant, National Defence Academy, KHARAKVASLA.

S. DEVANATH  
Deputy Secretary

## APPENDIX I

1. The subjects of the written examination, the time allowed and the maximum marks allotted to each subject will be as follows :—

Subject	Duration	Maximum Marks
1. English .. .. .	2 1/2 hours	300
2. General Knowledge and Current Affairs. —		
Paper I		
Current Affairs & History	2 hours	150
Paper II		
Science and Geography	2 hours	150
3. Mathematics I .. ..	2 hours	150
4. Mathematics II .. ..	2 hours	150

2. CANDIDATES ARE EXPECTED TO BE FAMILIAR WITH THE METRIC SYSTEM OF COINS, WEIGHTS AND MEASURES IN THE QUESTION PAPERS, WHEREVER NECESSARY. QUESTIONS INVOLVING THE USE OF METRIC SYSTEM OF COINS, WEIGHTS AND MEASURES MAY BE SET.

3. All question papers must be answered in English unless otherwise expressly stated in the question paper.

4. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write the answers for them.

5. The Commission have discretion to fix qualifying marks in any or all the subjects at the examination.

6. From the marks assigned to candidates in each subject, such deduction will be made as the Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

7. Deductions up to 5 per cent of the maximum marks for written subjects will be made for illegible handwriting.

8. Credit will be given for orderly, effective and exact expression combined with due economy of words in all subjects of the examination.

## SCHEDULE

## STANDARD AND SYLLABUS OF THE EXAMINATION

The standard of the papers will approximately be the same as that of the Matriculation Examination.

## ENGLISH—

Questions may be asked on any of the following :—

- An exercise in composition to test the candidate's ability to write simple and grammatically correct English.
- A simple prose passage to be condensed by the candidate with the object of testing comprehension and expression.
- Correction of sentences.
- Reported Speech, Questions and Commands.
- Use of simple words having similar pronunciation but different meanings and common phrases.

## GENERAL KNOWLEDGE—

There will be two papers :

Paper I—dealing mainly with Current Affairs and History.

Paper II—dealing with Science and Geography.

The following syllabus is designed to indicate the scope of each subject included in these papers. The topics mentioned are not to be regarded as exhaustive and question on topics of similar nature not mentioned in the syllabus may also be asked. Candidates' answers are expected to show their intelligent understanding of the questions and not detailed knowledge of any text book.

## PAPER I

**Current Events.**—Knowledge of important events that have happened in India during the past two years. India's system of Government. Important measures of legislation whether undertaken by the Central or State Legislatures. Broad questions of India's policy relating to foreign affairs. Question set will test factual knowledge of candidates.

World events of international importance. Important personalities : both Indian and foreign. Sports and other cultural activities of outstanding importance.

**Indian History.**—Board outline knowledge of Indian History. Knowledge of India's ancient culture and civilization as disclosed by monuments, ancient buildings and masterpieces of literature. Growth of self-government. Main stages in the national movement leading to independence.

**World History.**—Elementary knowledge of major events in World history. Reforms or national movements such as

represented by the French Revolution, Industrial Revolution in the U.K., the American War of Independence, the foundation of U.S.S.R., World Wars I and II, Modern freedom movements in Asia.

## PAPER II

## SCIENCE—

**Physics.**—Physical properties and states of matter and simple measurements of mass, weight, density and specific gravity.

Motion of object, velocity, acceleration, force, gravity.

Effects of heat, measurement of temperature, transference of heat, change of state.

Rectilinear propagation of light, phenomenon of reflection and refraction.

Natural and artificial magnets properties of a magnet.

Electricity, static and current, conductors, and non-conductors, heating, lighting and magnetic effects of currents.

**Chemistry.**—Physical and chemical changes, elements, mixtures and compounds, chemical properties of air, chemical composition of water. Preparation and properties of Oxygen, Hydrogen and Nitrogen, Acids, Bases and Salts, Carbon, Coal, Carbon-di-oxide.

**General.**—Elementary knowledge of the human body and its important organs.

Names and uses of common animals, trees, plants, flowers, birds and minerals.

Common epidemics, their causes, means of prevention and cure.

Eminent Scientists and their achievements.

## GEOGRAPHY—

The shape and movements of the Earth, Time, Night and Day and the Seasons, Climate and Weather—the main climatic and vegetation regions, The Earth's crust—erosion, transportation and deposition, earthquakes and volcanoes. Tides and Ocean currents; Maps.

Human occupations and activities in relation to Geographical factors.

The Geography of India with special reference to the above.

## MATHEMATICS—

## PAPER I

**Arithmetic.**—Vulgar and decimal fractions and the extraction of square roots. Ratio and proportion, percentages, averages, profit and loss, simple and compound interest. Conversion of various systems of Weights and Measures. Problems involving time and distance (unitary method).

Stocks and shares omitted.

**Mensuration.**—Determination of areas and volumes associated with rectangular blocks, circular cylinder, cone and sphere. (Practical problems involving these would be given and, if necessary, formulæ may be given).

## PAPER II

**Algebra.**—Elementary basic operations—use of brackets—H.C.F., L.C.M., Fractions—Factors—Remainder Theorem, Ratio and Proportion. Indices and Surds (Elementary only). Equations of first and second degree and easy simultaneous equations involving two unknowns Practical problems.

**Graphs.**—Idea of graphs—Interpolation—Solution of easy quadratic and simultaneous equations.

**Geometry.**—A thorough understanding of plane Geometry with special emphasis on :—

(i) Properties of angles at a point.

(ii) Parallel Lines.

(iii) Angles of triangles.

(iv) Congruency of triangles.

(v) Properties of angles, sides and diagonals of a parallelogram, rhombus, rectangles, square and trapezium.

(vi) Circle and its properties including tangents and normals.

(vii) Cyclic quadrilaterals.

(viii) Idea of projection.

(ix) Similar triangles.

(x) Practical problems and constructions involving use of geometrical instruments, viz., bisection of an angle and straight line, construction of perpendiculars, parallel lines or triangles, tangents to circles, inscribed and circumscribed circles of triangles.

## INTELLIGENCE AND PERSONALITY TEST

In addition to the interview the candidates will be put to Intelligence Tests both verbal and non-verbal designed to assess their basic intelligence. They will also be put to Group Tests, such as group discussions, group planning, outdoor group tasks, and asked to give brief lectures on specified

subjects. All these tests are intended to judge the mental calibre of a candidate. In broad terms, this is really an assessment of not only his intellectual qualities but also his social traits and interests in current affairs.

## APPENDIX II

### PHYSICAL STANDARDS FOR ADMISSION TO THE NATIONAL DEFENCE ACADEMY

To be passed fit for admission to the National Defence Academy a candidate must be in good physical and mental health and free from any disability likely to interfere with the efficient performance of duty.

2. It will, however, be ensured that :—

- there is no evidence of weak constitution, imperfect development, serious malformation or obesity;
- there is no maldevelopment or impairment of function of the bones or joints;
- there is no impediment of speech;
- there is no malformation of the head, deformity from fracture or depression of the bones of the skull;
- there is no impaired hearing discharge from or disease of either ear, unhealed perforation of the tympanic membranes or signs of acute or chronic suppurative otitis media or evidence of radical or modified radical mastoid operation;

NOTE.—A soundly healed perforation without any impairment of the mobility of the drum and without impairment of hearing should not be a bar to acceptance of a candidate for the Army.

- there is no disease of the bones or cartilages of the nose or nasal polypus or disease of the nasopharynx;
- there are no enlarged glands in the neck and other parts of the body and that the thyroid gland is normal;

N.B.—Scars of operations for the removal of tuberculosis glands are not a cause for rejection provided that there has been no active disease within the preceding 5 years and the chest is clinically and radiologically clear.

- there is no disease of the throat, palate, tonsils or gums or any disease or injury affecting the normal function of either Mandibular joint.

N.B.—Simple hypertrophy of the tonsils, if there is no history of attacks of tonsillitis, is not a cause for rejection.

- there is no sign of functional or organic disease of the heart and blood vessels;
- there is no evidence of pulmonary tuberculosis or previous history of this disease or any other chronic disease of the lungs;
- there is no evidence of any disease of the digestive system including any abnormality of the liver and spleen;
- there is no hernia or tendency thereto;
- there is no hydrocele, or definite varicocele or any other disease or defect of the genital organs;

N.B.—A candidate who has been operated for a hydrocele will be accepted if there are no abnormalities of the cord and testicle and there is no evidence of filariasis.

- there is no fistula and/or fissure of the anus, or evidence of haemorrhoids;
- there is no disease of the kidneys. All cases of Glycosuria and Albuminuria will be rejected;
- there is no disease of the skin unless temporary or trivials. Scars which by their extent of position cause or are likely to cause disability or marked disfigurement are a cause for rejection;
- there is no active, latent or congenital venereal disease;
- there is no history or evidence of mental disease. Candidates suffering from epilepsy incontinence of urine or enuresis will not be accepted;
- there is no squint or morbid condition of the eye or of the lids which is liable to a risk of aggravation or recurrence;
- there is no active trachoma or its complications.

N.B.—Remedial operations are to be performed prior to entry. No guarantee is given of ultimate acceptance and it should be clearly understood by the candidates that the decision whether an operation is desirable or necessary is one to be made by their private medical adviser. The Government will accept no liability regarding the result of operation or any expense incurred.

### 3. Standards for Height, Weight and Chest measurements.

(a) *Height*.—(i) The height of a candidate will be measured by making him stand against the standard with his feet together. The weight should be thrown on the heels and not on the toes or outer sides of the feet. He will stand erect without rigidity and with the heels, calves, buttocks and shoulders touching the standard; the chin will be depressed to bring the vertex of the head level under the horizontal bar, and the height will be recorded in centimetres and parts of a centimetre to halves.

(ii) The minimum acceptable height for a candidate is 157.5 cm. except in the case of Gorkhas, Nepalese, Assamese and Garhwali candidates in whose case the height may be reduced by 5.0 cm.

NOTE.—Relaxation of height up to 2.5 cm. may be allowed where the Medical Board certifies that the candidate is likely to grow and come up to the required standard on completion of his training.

(iii) *Air Force only*.—To meet the special requirements for training as a pilot, the minimum height and leg length will be :—

Height	162.5 cm.
Leg length Hip to Heel	99.0 cm.

N.B.—On account of the lower age of candidates a margin of up to 5.0 cm. in height and 2.5 cm. in leg length may be given, provided it is certified by the Medical Board that the candidate is likely to grow and come up to required standard on completion of his training at the National Defence Academy.

(b) *Weight*.—(i) Weight will be taken with the candidate fully stripped or with under pants only. In recording weight, fraction of half a kg. will not be noted. A correlation table between age, height and average weight is given below for guidance.

Age period	15—16	16—17	17—18
Height (cm)	Weight (Kg)	Weight (Kg)	Weight (Kg)
157.5	43.5	—	—
160.5	45.0	46.5	—
162.5	46.5	48.0	50.0
165.0	48.0	50.0	52.5
167.5	49.0	51.0	52.5
170.0	51.0	52.5	54.5
172.5	52.5	54.5	56.0
175.5	54.5	56.0	58.0
178.0	56.0	58.0	60.0
180.0	58.5	60.0	62.0
183.0	61.0	62.5	64.5

(ii) It is not possible to lay down precise standards for weight in relation to height and age. The correlation table is, therefore, only a guide and cannot be applied universally. A 10 per cent. departure from the average weight given in the table is to be considered as within normal limits. There may nevertheless be some individuals who according to the above standard may be over-weight but from the general build of the body are fit in every respect. The over-weight in such cases may be due to heavy bones and muscular development and not to obesity. Similarly for those who are under-weight, the criteria should be the general build of the body and proportionate development rather than rigid adherence to standards in the above table.

(c) *Chest*.—The chest should be well developed with a minimum range of expansion of 5.0 cm. The candidate's chest will be measured by making him stand erect with his feet together, and his arms raised over his head. The tape will be so adjusted round the chest that its upper edge touches the inferior angles of the shoulder blades behind, and its lower edge the upper part of the nipples in front. The arms will then be lowered to hang loosely by the side. Care will be taken that the shoulders are not thrown upwards or backwards so as to displace the tape. The candidate will then be directed to take a deep inspiration several times and the maximum and minimum expansions of the chest will be carefully noted. The minimum and maximum will then be recorded in cm. thus 84/89, 86/91 etc.

In recording the measurements, fraction of less than half a centimetre should not be noted.

### 4. Dental conditions.

It should be ensured that a sufficient number of natural and sound teeth are present for efficient mastication.

(a) A candidate must have a minimum of 14 dental points to be acceptable. In order to assess the dental condition of an individual, points are allotted as under for teeth, in good apposition with corresponding teeth in the other jaw :

- Central incisor, lateral incisor, canine, 1st and 2nd premolar and underdeveloped 3rd Molar—1 point each.

- (ii) 1st and 2nd molar and fully developed third molar—2 points each.

When all 32 teeth are present, there will be a total count of 22 points.

(b) The following teeth in good functional apposition must be present in each jaw :

- (i) Any 4 of the 6 anteriors.  
(ii) Any 6 of the 10 posteriors.

(c) Candidates suffering from severe pyorrhoea will be rejected. Where the state of pyorrhoea is such that in the opinion of the dental officer, it can be cured without extraction of teeth, the candidate may be accepted.

#### 5. Visual Standards.

(a) Visual acuity :

	Better eye	Worse eye
Distant Vision	V-6/6	V-6/9
Near Vision	Reads 0.5 or II	Reads 0.5 or II
<i>Standard II</i>		
Distant Vision (corrected)	6/6	6/9
Near Vision (corrected)	II	II

Myopia of not more than—2.5 D in any one meridian.

Hypermetropia of not more than 3.5 D in any one meridian.

NOTE.—1. Fundus and Media to be healthy and within normal limits.

- No undue degenerative signs of vitreous or choroid to be present suggesting progressive myopia.
- Should have good binocular vision, fusion faculty and full field of vision in both eyes.
- There should be no organic disease likely to exacerbations or deterioration.

(b) Colour vision Inability to distinguish primary colours will not be regarded as cause for rejection but the fact will be noted in the proceedings and the candidate informed.

(c) Requirement for the Services.

#### ARMY-VS II (Minimum Standard)

NAVY (i). V.V. S. I. No. glasses will be worn by candidates for the Executive Branch but these standards may be relaxed for a limited number of otherwise suitable candidates for Engineering, Electrical and Supply and Secretariat Branches upto 6/18, 6/36 correctable to 6/6 both eyes with glasses.

(ii) Special requirements.

*Night Vision Standard*—Candidates who fail to secure Grade II (eleven) very good/good (Della casa) are to be rejected.

*Heterophoria* —Must not exceed

Exophoria } 8 prism dioptres  
Esophoria }

Hyperphoria 1 prism dioptre

*Limits of hypermetropia (under homatropine)*

*Better Eye*

Hypermetropia .. .. . 1.50 dioptres  
Simple Hypermetropic astigmatism .. 0.75 dioptre

Compound Hypermetropic astigmatism The error in the more hypermetropic meridian must not exceed 1.5 dioptres of which not more than 0.75 dioptre may be due to astigmatism.

*Worse Eye*

Hypermetropia .. .. . 2.5 dioptres  
Simple Hypermetropic astigmatism .. 1.5 ..  
Compound Hypermetropic astigmatism The error in the more hypermetropic meridian must not exceed 2.5 dioptres of which not more than 1.0 dioptre may be due to astigmatism.

Colour-Perception

Standard I  
(Martin Lantern)

AIR FORCE (i) V.S.I. No glasses will be worn.

(ii) Special requirements.

Manifest Hypermetropia must not exceed 2.25 D.

Ocular Muscle Balance :

Heterophoria with the Maddox Rod test must not exceed

- (a) at 6 metres .. Exophoria 6 prism dioptres.  
Esophoria 6 prism dioptres.  
Hyperphoria 1 prism dioptre.  
(b) at 33 cms. Exophoria 6 prism dioptres.  
Esophoria 6 prism dioptres.  
Hyperphoria 1 prism dioptre.

Binocular vision.—Candidate must possess good binocular vision (fusion and stereopsis with good amplitude).

#### 6. Hearing Standard.

Hearing will be tested by speech test. Where required audiometric records will also be taken.

(a) *Speech Test.*

The candidate should be able to hear a forced whisper with each ear separately standing with his back to the examiner at a distance of 609.5 cm. in a reasonably quiet room. The examiner should whisper with the residual air; that is to say at the end of an ordinary expiration.

(b) *Audiometric Record.*

The candidate will have no loss of hearing in either ear at frequencies 128 to 4096 cycles per second (Audiometry reading between +10 and -10).

#### APPENDIX III

Brief particulars of the Services are given below :—

#### TRAINING :

The selected candidates for the three Services (viz., Army, Navy and Air Force) are given preliminary training, both academic and physical for a period of 3 years at the National Defence Academy, which is an Inter-Service Institution. The training during the first two years is common to the cadets of the three wings and a successful cadet is deemed to have attained the Intermediate Standard in his academic studies.

2. On passing out from the National Defence Academy, Army Cadets go to the Indian Military Academy, Dehradun. Naval Cadets to the Cadets' Training Ship and Air Force cadets to Air Force Flying College, Jodhpur.

3. At the I.M.A., Army Cadets are known as Gentlemen cadets and are given strenuous military training for a period of one year aimed at turning out officers capable of leading infantry sub-units. On successful completion of training, Gentlemen cadets are granted Permanent Commission in the rank of 2nd/Lt.

4. The Naval cadets are selected for the Executive, Engineering, Electrical and Supply and Secretariat Branches of the Navy, and are given sea training on the Cadets Training Ship for a period of six months. On successful completion of the training, they are promoted to the rank of Midshipman. After a further training of 12 months in the respective branches for which they are finally selected, they are promoted to the rank of acting Sub-Lieutenants.

5. Air Force cadets receive Basic and Intermediate flying training at the Air Force Flying College for one year and a further training for six months in the Advanced Stage in any of the three roles for which he is considered fit e.g., Fighter Transport or Logistic Support. After successful completion of training, they are commissioned as Pilot Officers and awarded Flying badges. If a pupil pilot shows inadequate aptitude for flying, he may be considered for General Duties (Navigation) Branch or for training in the Administrative and Special Duties Branches or in the Equipment Branch where they are given training for a period of six months to one year, on successful completion of which they are commissioned as Pilot Officers on probation.

#### TERMS AND CONDITIONS OF SERVICE

#### 6. ARMY OFFICERS.

(i) PAY

Rank	Pay Scales	Rank	Pay Scales
	Rs.		Rs.
2nd Lieut.	400	Lt. Colonel	1400 fixed
Lieut.	450-540	(time scale)	
Captain	750-990	Colonel	1550-1730
Major	1050-1300	Brigadier	1750-1950
Lt. Colonel	1300-1500	Maj. General	2500/-125/2-
(By selection)			2750.
		Lt. General	3000 p.m.

(ii) ALLOWANCES

In addition to pay, an officer at present receive the following allowances :—

- Compensatory (city) and Dearness Allowances are admissible at the same rates and under the same conditions as are applicable to the civilian Gazetted Officers from time to time.
- A kit maintenance allowance of Rs. 30 p.m. (in the case of Officers, of and below the rank of Brigadier only).
- A special disturbance allowance of Rs. 30 p.m. (in the case of officers of and below the rank of Brigadier only).
- Expatriation allowance* : When Officers are serving outside India, expatriation allowance ranging from

Rs. 50, to Rs. 250 p.m., depending on rank held, is admissible.

- (e) *Separation allowance*: Married officers posted to non-family stations are entitled to receive separation allowance of Rs. 50 p.m.

### (iii) POSTING

Army Officers are liable to serve anywhere in India and abroad.

### (iv) PROMOTION

#### (a) Substantive promotion

The following are the service limits for the grant of substantive promotion to higher ranks:—

##### By time scale

Lt.	.. .. .	2 years of commissioned service
Capt.	.. .. .	6 years of commissioned service
Major	.. .. .	13 years of commissioned service
Lt. Col. from Major	.. .. .	24 years of commissioned service if not promoted by selection.

##### By Selection

Lt. Col.	.. .. .	16 years of commissioned service
Col.	.. .. .	20 years of commissioned service
Brigadier	.. .. .	23 years of commissioned service
Maj. Gen.	.. .. .	25 years of commissioned service
Lt. Gen.	.. .. .	28 years of commissioned service
Gen.	.. .. .	No restriction.

#### (b) Acting promotion

Officers are eligible for acting promotion to higher ranks on completion of the following minimum service limits, subject to availability of vacancies.

Captain	.. .. .	3 years.
Major	.. .. .	6 years.
Lt. Colonel	.. .. .	6½ years.
Colonel	.. .. .	8½ years.
Brigadier	.. .. .	12 years.
Maj. General	.. .. .	20 years.
Lt. General	.. .. .	25 years.

### 7. NAVAL OFFICERS

#### (i) PAY

##### Pay Scales

Rank	General Service	Naval Aviation
	Rs.	Rs.
Midshipman	.. .. . 270	270
Ag. Sub/Lieut.	.. .. . 400	475
Sub Lieut.	.. .. . 450-480	535-565
Lieut.	.. .. . 630-910	710-990
Lieut. Cdr.	.. .. . 1000-1300	1050-1300
Commander	.. .. . 1350-1500	1350-1500
Captain	.. .. . 1550-1950	1550-1950
	Commodore receives pay to which entitled according to seniority as Captain.	
Rear Admiral	.. .. . 2500/125/2-2750	2500-125/2-2750.
Vice Admiral	.. .. . Rs. 2750	Rs. 2750.

### (ii) ALLOWANCES

Naval Aviation Officers are entitled to Flying Boundary at rates and under conditions applicable to corresponding ranks of Air Force Officers.

Naval Officers are entitled to other allowances as applicable to Army Officers of equivalent Rank. In addition certain special concessions like hardy money, submarine allowance and diving pay are admissible to them.

### (iii) PROMOTION

#### (a) Substantive Promotion

The following are the service limits for grant of substantive promotion to higher ranks:—

##### By Time Scale

Sub Lt.	.. .. .	1 year
Lt.	.. .. .	3 years (subject to gain/forfeiture of seniority)
Lt. Cdr.	.. .. .	8 years seniority a Lt. To Comdr. if not promoted by selection—24 years commissioned service.

##### By Selection

Cmdr. X Branch	.. .. .	2-8 years seniority as Lt. Cdr.
Cmdr. E. Branch	.. .. .	2-10 years seniority as Lt. Cdr.
Cmdr. L. Branch	.. .. .	2-10 years seniority as Lt. Cdr.
Cmdr. S. & S. Branch	.. .. .	4-10 years seniority as Lt. Cdr.
Capt.	.. .. .	4 years seniority as Cmdr.
Rear Admiral	.. .. .	No restriction.
Vice Admiral	.. .. .	No restriction.

#### (b) Acting promotion

There is no service limits for grant of acting promotion in the Navy except in the rank of Lt. Cmdr. which is as follows:

Must have attained 6 years' seniority as Lieutenant.

### 8. AIR FORCE OFFICERS

#### (i) PAY

Rank	Pay scales	Rank	Pay scales
	Rs.		Rs.
Pilot Officer	475	Group Capt.	1550-1730
Flying Officer	535-625	Air Cdre.	1750-1950
Flight Lieut.	790-990	Air Vice Marshal	2500-125/2-2750.
Sqn. Ldr.	1050-1300		
Wing Cdr. (Selective)	1300-1500	Air Marshal	3000
Wing Cdr. (Time scale)	1400 fixed	Air Chief Marshal	3000 to be revised)

### (ii) ALLOWANCES

*Flying Bounty*—Officers of the General Duties (Pilots and Navigators) Branches are entitled to get flying bounty at the following rates:—

Pilot Officer to Wing Cdr	Rs. 3000 per annum.
Gp. Capt. and Air Cdre.	Rs. 2700 per annum.
Air Vice Marshal & Air Marshal	Rs. 1800 per annum.

#### Other allowances

As for Army Officers.

### (iii) QUALIFICATION PAY/GRANT

Admissible to GD Officers for possessing certain prescribed qualifications at the rates given below.

	Lower Rate	Higher Rate
Qualification Pay	Rs. 50 PM	Rs. 75 PM
Qualification Grant	Rs. 1200	Rs. 1800

### (iv) PROMOTIONS

#### (a) Substantive Promotion

The following are the service limits for the grant of Substantive promotion to higher ranks:—

##### By time scale

Flying Officer	.. .. .	1 year commissioned service.
Flight Lt.	.. .. .	4 years service as Flying Officer.
Sqn. Ldr.	.. .. .	6 years service as Flight Lt.
Wing Cdr.	.. .. .	On completion of 24 years of commissioned service if not promoted by selection.

##### By Selection

Wing Cdr.	.. .. .	3 years service as Sqn. Ldr.
Gp. Capt.	.. .. .	4 years service as Wing Cdr.
Air Commodore	.. .. .	3 years service as Gp. Capt.
Air Vice Marshal	.. .. .	3 years service as Air Commodore.

#### (b) Acting Promotion

The following are the minimum service limits required for acting promotion of officers:—

Flt. Lt.	.. .. .	2 years.
Sqn. Ldr.	.. .. .	5 years.
Wing Cdr.	.. .. .	6 years.

(After service of 1 year in the rank of Sqn. Ldr.)

Gp. Capt.	.. .. .	8 years (after service of 1 year in the rank of Wing Cdr.)
Air Cdre	.. .. .	11½ years (after service of 3 years in the rank of W/Cdr. and Gp. Capt.).
Air Vice Marshal	.. .. .	15 years (after service of 5 years in the ranks of W/Cdr.; Gp./Capt. and (A/Cdre).

(Service limits in the case of officers of Ground Duties Branch is one year more in the ranks of Flt. Lt. and Sqn. Ldr. ½ year more in the rank of W/Cdr. Gp. Capt. and Air Cadre.

### 9. RETIRING BENEFITS

Pension, gratuity and casualty pensionary award will be admissible in accordance with the rules in force from time to time.

### 10. LEAVE.

Leave will be admissible in accordance with the rules in force from time to time.

